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Printed Page:-	Subject Code:- ACSE0303
	Roll. No:
NOIDA INSTITUTE OF ENGINEERING	AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute A	Affiliated to AKTU, Lucknow)
В.Т	ech
	Y EXAMINATION - APRIL 2023
-	gn Thinking-I
Time: 3 Hours General Instructions:	Max. Marks: 100
IMP: Verify that you have received the question po	aner with the correct course code branch etc
	tions -A, B, & C. It consists of Multiple Choice
Questions (MCQ's) & Subjective type questions.	arone 14, 2, at at it consists of manapre enough
2. Maximum marks for each question are indicate	d on right -hand side of each question.
3. Illustrate your answers with neat sketches when	ever necessary.
4. Assume suitable data if necessary.	
5. Preferably, write the answers in sequential orde	
	en material after a blank sheet will not be
evaluated/checked.	
SECTIO	N A 20
1. Attempt all parts:-	
1-a. The second step in the design thinkin	g process is: (CO 1)
(a) Define	
(b) Test	
(c) Empathise	
(d) Prototype	
1-b. Which among the following is better to	echnique for observation exercise: (CO 1)
(a) Complete Observer	·
(b) Complete Participant	
(c) Participants as Observer	
(d) observer as participant	
1-c. Which of the following is not a tool in	Empathy stage (CO 2)
(a) Persona Mapping	
(b) CATWOE	
(c) RCA	
(c) NCA	

	(d) L0	
1-d.	During which step do you build a vast depository of suggestions to work with? (CO 2)	1
	(a) Test	
	(b) Empathise	
	(c) Ideate	
	(d) Prototype	
1-e.	is the process of coming up with a solution to a problem by analyzing the problem, by splitting down the data to understand the problem. (CO 3)	1
	(a) Define stage of Design Thinking	
	(b) Design Thinking touch pointing	
	(c) Ideation of Design Thinking	
	(d) Prototype designing	
1-f.	You are a person with a high level ofif you stand by your values even if others put pressure on you to do something that is wrong or if they make fun of you. (CO 3)	1
	(a) Communication	
	(b) Cooperation	
	(c) Honesty	
	(d) Integrity	
1-g.		1
J	conclusion is present is called. (CO 4)	
	(a) Inference words	
	(b) Premise indicators	
	(c) Indicator words	
	(d) Equivalent words	
1-h.	Which of the following are benefits of brainstorming when compared to	1
	nominal group technique? (CO 4)	
	(a) brainstorming is more fun	
	(b) brainstorming can create a positive organizational climate	
	(c) brainstorming can encourage talented and highly skilled employees t remain in an organization	0
	(d) all of the above	
1-i.	The fallacy of ignoring the bad information about something is [CO5]	1

	(c) The ostrich fallacy	
	(d) The Slippery slope fallacy	
1-j.	The first step in investigating possible implicit premises is to(CO 5)	1
	(a) Search for a credible premise that would make the argument as strong possible	j as
	(b) Rewrite the argument	
	(c) Search for a credible premise that would make the argument valid	
	(d) Make a bad argument good	
2. Attem	pt all parts:-	
2.a.	What are wicked Problems? (CO1)	2
2.b.	Define the culture.(CO2)	2
2.c.	How "Random Association Technique" helps in Brainstorming session? (CO3)	2
2.d.	How to apply critical thinking.(CO4)	2
2.e.	Differentiate between Valid and invalid arguments. (CO 5)	2
	SECTION B	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	What are wicked Problems? Explain wicked problem with case study of Peoples Liberation Army, Columbia. (CO 1)	6
3-b.	Define Empathy. Draw a empathy map of a rural student taken admission in NIET. (CO 2)	6
3-c.	Describe the brainstorming with its benefits and limitations to solve the problems. How RAT helps in ideation?(CO2)	6
3-d.	Describe three key elements of Design Thinking.(CO1)	6
3.e.	What is Root Cause Analysis? How 5 Why technique help in understanding the root cause of a problem? Give example(CO3)	6
3.f.	Explain the fundamental concept behind critical thinking.(CO4)	6
3.g.	Is there anything inherently wrong with accepting a claim that furthers your own interests? Is there anything wrong with accepting a claim solely because it furthers your own interests? (CO 5)	6
	SECTION C	50

(a) The Bandwagon Fallacy

(b) The Ad Hominem Fallacy

4-a.	What is design thinking? Give three examples of Great Design. (CO1)	10
4-b.	Explain Arcturus-IV case study by Professor John Arnold? What are your imaginations about Arcturus-IV? (CO 1)	10
5. Answe	er any <u>one</u> of the following:-	
5-a.	Describe the culture along with its various elements in detail.(CO2)	10
5-b.	Discuss the care & guidance.(CO2)	10
6. Answe	er any <u>one</u> of the following:-	
6-a.	Attempt a journey map of a first-year student who comes from a rural background and enters your classroom- (i) Draw the persona, (ii) Identify various touch points, (iii) Capture journey map elements at each touch point and rate them by plotting a graph (CO3)	10
6-b.	How to make a classroom experience interesting for students (i) Do the Brainstorming (ii) Use Random Association Technique (iii) Construct a Mindmap (iv) Apply 10gm, 100gm, 1000gm (v) Identify QBL (CO3)	10
7. Answe	er any <u>one</u> of the following:-	
7-a.	Contrast between argumentation versus rhetoric.(CO4)	10
7-b.	Explain ideation methods to spark innovative ideas. (CO4)	10
8. Answe	er any <u>one</u> of the following:-	
8-a.	Define Logic, Premise and Conclusion with valid examples. (CO 5)	10
8-b.	Define propositional logic and identify the role that logic plays in critical thinking with example. (CO5)	10